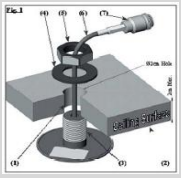
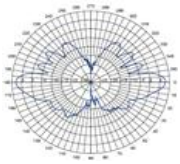
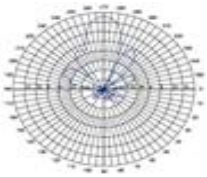
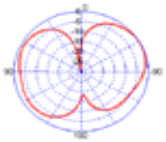
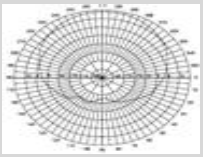
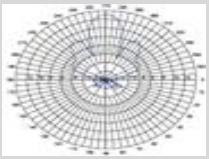
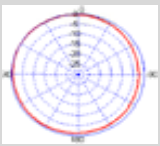
RoamAbout®

Wireless Networking

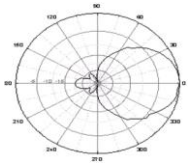
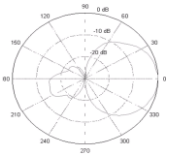
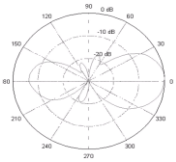
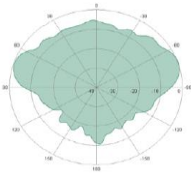
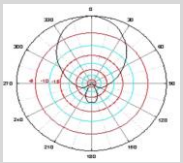
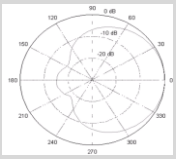
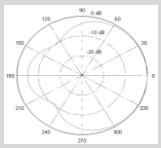
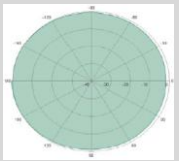
External Antenna
Quick Reference Guide

enterasys®

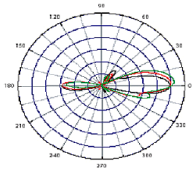
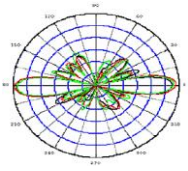
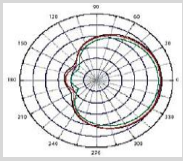
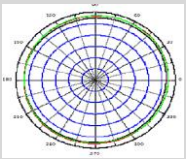
2.4 GHz Antennas (802.11b/g)

AP Model	REV	Ant. Model # / Ant. ID / AP ID	RBTES-BG-M08M	RBTES-BG-S1490M	RBTES-BG-P18M	RBT4K-AG-IA
		Ant. ID	RBTES-BG-M08M	RBTES-BG-S1490M	RBTES-BG-P18M	RBT4K-AG-IA
RBT-1602	6x	AP1602C				
	5x, 0x	AP1602				
TPRZ-MP-422	6x	MP422A				
	5x	MP422				
TPRZ-MP-620	6x	MP620A				
	5x	MP620				
RBT-4102	6x	AP4102C	X	X	X	X
	5x, 0x	AP4102	X	X	X	X
RBT-4102-EU	6x	AP4102C-EU	X	X		X
	5x, 0x	AP4102-EU	X	X		X
RBT-4102-BG	5x, 0x	AP4102	X	X	X	X
Horizontal Coverage			360°	90°	18°	360°
Vertical Coverage			13°	14°	19°	
PRODUCT PHOTO						
VERTICAL GAIN						
HORIZONTAL GAIN			No Image			
Type/Style			Omni-Directional	Sector Panel	Directional Panel	Omni-Directional
Indoor/Outdoor			Indoor/Outdoor	Indoor/Outdoor	Indoor/Outdoor	Indoor Only
Frequency Range			2400-2483.5 MHz	2400-2485 MHz	2300-2500 MHz	2.4-2.5 GHz
Impedance			50 Ohms	50 Ohms	50 Ohms	50 Ohms
VSWR (50 Ohms)			< 1.5:1	<1.5:1	< 1.5:1	2 typical
Gain,dBd			8 dBi	14 dBi	18.0 dBi	2dBi
Polarization			Vertical	Vertical	Linear, Vertical/Horizontal	Vertical
Front to Back Ratio			N/A	23dBi	>25dBi	N/A
Maximum Power			25 Watts	N/A	20 Watts	N/A
Dimensions			H 20.2 in. H 513.1 mm	19.8 in. L x 3.1 in. W x 1.5 in D 50.3cm L x 7.9cm W x 3.81cm D	15.1 in x 13.9 in x 1.9 in 38.3 cm x 35.3 cm x 4.8 cm	N/A
Weight			0.5 lb (0.226 kg)	2.5 LBS (1.13 kg)	3.9 lbs (1.8 kg)	85g
Wind Loading			125 mph (201 km/h)	125 mph (201 km/h)	85 lbs (38.5kg)	N/A
Operating Temperature			N/A	N/A	-40° to +70° C	-45° to +90° C
Storage Temperature			N/A	N/A	-40° to +70° C	-45° to +90° C
Mounting			Mast	Mast	Mast	Ceiling
Connector			Rev-N (Male)	Rev-N (Male)	Rev-N (Male)	RPSMA
Cable Options			RBTES-L200-C20F RBTES-L400-C50F RBTES-L400-C75F	RBTES-L200-C20F RBTES-L400-C50F RBTES-L400-C75F	RBTES-L200-C20F RBTES-L400-C50F RBTES-L400-C75F	8 ft attached cable
Pigtail Options			RBT4K-AG-PT20M RBT4K-AG-PT20F	RBT4K-AG-PT20M RBT4K-AG-PT20F	RBT4K-AG-PT20M RBT4K-AG-PT20F	None
Lightning Protection Options			RBTES-AG-LPM	RBTES-AG-LPM	RBTES-AG-LPM	None

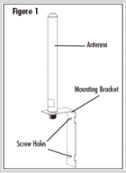
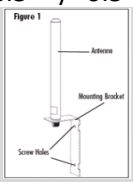
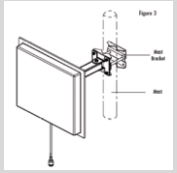
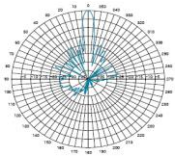
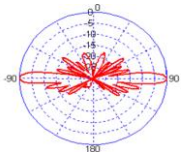
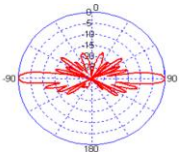
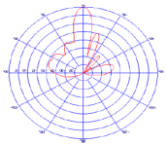
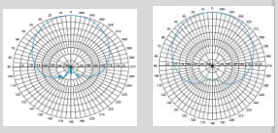
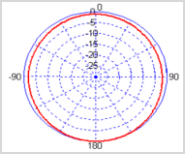
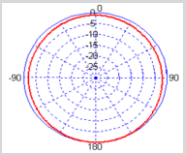
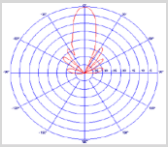
2.4 GHz Antennas (802.11b/g)

AP Model	REV	Ant. Model # / Ant. ID / AP ID	RBTES-BG-S1060	RBTES-BG-S07120	RBTES-BG-S06180	TRPZ-ANT-7360R
		Ant. ID	ANT1060	ANT1120	ANT1180	ANT-7360R
RBT-1602	6x	AP1602C	X	X	X	
	5x, 0x	AP1602	X	X	X	
TPRZ-MP-422	6x	MP422A	X	X	X	X
	5x	MP422	X	X	X	X
TPRZ-MP-620	6x	MP620A				
	5x	MP620				
RBT-4102	6x	AP4102C				
	5x, 0x	AP4102				
RBT-4102-EU	6x	AP4102C-EU				
	5x, 0x	AP4102-EU				
RBT-4102-BG	5x, 0x	AP4102				
Horizontal Coverage			60°	120°	180°	360°
Vertical Coverage			65°	60°	40°	25°
PRODUCT PHOTO						
VERTICAL GAIN						
HORIZONTAL GAIN						
Type/Style			Sector Panel	Sector Panel	Sector Panel	Omni-Directional
Indoor/Outdoor			Indoor Only	Indoor Only	Indoor Only	Indoor Only
Frequency Range			2400-2483MHz	2400-2483 MHz	2400-2483 MHz	2400-2500 MHz
Impedance			50 Ohms	50 Ohms	50 Ohms	50 Ohms
VSWR (50 Ohms)			≤1.5:1	≤ 1.5:1	≤ 1.5:1	1.8
Gain,dBd			>10 dBi	≥ 7dBi	≥ 6dBi	6.0dBi
Polarization			Vertical, Linear	Vertical, Linear	Vertical, Linear	Vertical, Linear
Front to Back Ratio			> 20dBi	≥ 14dBi	≥ 6dBi	N/A
Maximum Power			20 Watts	20 Watts	20 Watts	75 Watts
Dimensions			4.5 in W x 4.4 in. L x 1 in. D 123mm x 115mm x 28cm	2.04 in W x 4.45 in. L x 1.18 in D 52mm W x 113mm L x 30cm D	2.05 in W x 7.99 in L x 1.18 in D 52mm W x 198mm L x 30cm D	3.39 in Di x 1.69 in H 86mm Di x 43mm H
Weight			0.5 lb (0.226 kg)	0.5 lb (0.226 kg)	0.5 lb (0.226 kg)	.66 lb (0.3 kg)
Wind Loading			≥ 10 kg	≥10Kg	≤ 7 (200 km/h)	10 N at 160 km/h (100 mph)
Operating Temperature			-45° to +75° C	-45° to +75° C	-45° to +70° C	-40° to + 80° C
Storage Temperature			-30° to +75° C	-30° to +75° C	-30° to +75° C	-40° to + 80° C
Mounting			Wall, Pole	Wall, Pole	Wall, Pole	Ceiling
Connector			Rev-N (Male)	Rev-N (Male)	Rev-N (Male)	N-Type (Female)
Cable Options			None	None	None	3 ft cable (N-Type to RPSMA) included
Pigtail Options			RBT4K-AG-PT20F	RBT4K-AG-PT20F	RBT4K-AG-PT20F	None
Lightning Protection Options			None	None	None	None

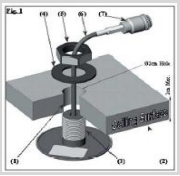
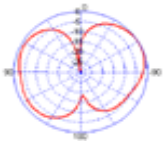
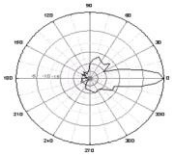
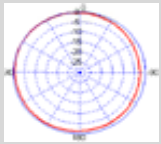
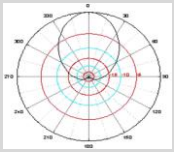
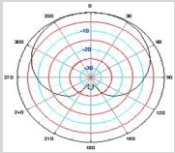
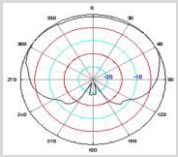
2.4 GHz Antennas (802.11b/g)

AP Model	REV	Ant. Model # / Ant. ID / AP ID	TRPZ-ANT-1120	TRPZ-ANT-1360		
		Ant. ID	ANT1120-OUT	ANT1360-OUT		
RBT-1602	6x	AP1602C				
	5x, 0x	AP1602				
TPRZ-MP-422	6x	MP422A				
	5x	MP422				
TPRZ-MP-620	6x	MP620A	X	X		
	5x	MP620	X	X		
RBT-4102	6x	AP4102C				
	5x, 0x	AP4102				
RBT-4102-EU	6x	AP4102C-EU				
	5x, 0x	AP4102-EU				
RBT-4102-BG	5x, 0x	AP4102				
Horizontal Coverage			120°	360°		
Vertical Coverage			15°	15°		
PRODUCT PHOTO						
VERTICAL GAIN						
HORIZONTAL GAIN						
Type/Style			Directional Panel	Omni-Directional		
Indoor/Outdoor			Indoor/Outdoor	Outdoor		
Frequency Range			2400-2500 MHz	2400-2500 MHz		
Impedance			50 Ohms	50 Ohms		
VSWR (50 Ohms)			1.5: 1 Max	2.0: 1 Max		
Gain,dBd			10dBi	8dBi		
Polarization			Vertical, Linear	Vertical, Linear		
Front to Back Ratio			10dBi	N/A		
Maximum Power			10 Watts	20 Watts		
Dimensions			88 x 750 x 70 mm	510mm L x 21 mm (diameter)		
Weight			700g	170g		
Wind Loading			>10kg	N/A		
Operating Temperature			-40° to +80° C	-40° to +80° C		
Storage Temperature			-40° to +80° C	-40° to +80° C		
Mounting			Wall, Pole	Wall, Pole		
Connector			N-Type (Female)	N-Type (Female)		
Cable Options			TRPZ-ANT-CBL3MM (Included)	TRPZ-ANT-CBL3MM		
Pigtail Options			None	None		
Lightning Protection Options			TRPZ-ANT-LGTNG (w/3 meter Cable)	TRPZ-ANT-LGTNG (w/3 meter Cable)		

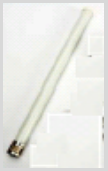
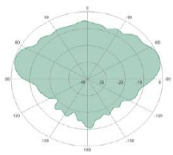
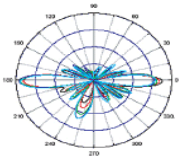
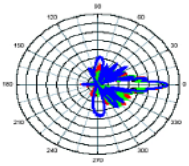
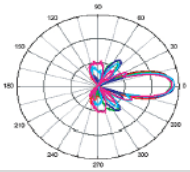
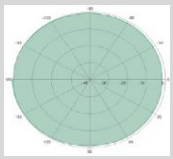
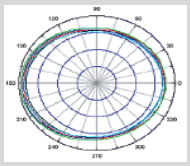
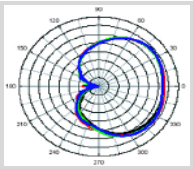
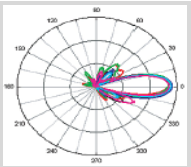
5.0 GHz Antennas (802.11a)

AP Model	REV	Ant. Model # / Ant. ID / AP ID	RBTES-AW-S1590M	RBTES-AM-M10M	RBTES-AH-M10M	RBTES-AH-P23M
		Ant. ID	RBTES-AW-S1590M	RBTES-AM-M10M	RBTES-AH-M10M	RBTES-AH-P23M
RBT-1602	6x	AP1602C				
	5x, 0x	AP1602				
TPRZ-MP-422	6x	MP422A				
	5x	MP422				
TPRZ-MP-620	6x	MP620A				
	5x	MP620				
RBT-4102	6x	AP4102C	5.8 GHz only	X	X	X
	5x, 0x	AP4102	X	X	X	X
RBT-4102-EU	6x	AP4102C-EU		Indoor only		
	5x, 0x	AP4102-EU	X	X		
RBT-4102-BG	5x, 0x	AP4102				
Horizontal Coverage			60° or 90°	360°	360°	11.7°
Vertical Coverage			8°	8.5° +/- 0.5°	8.5° +/- 0.5°	14.5°
PRODUCT PHOTO						
VERTICAL GAIN						
HORIZONTAL GAIN			 60° 90°			
Type/Style			Adjustable Sector	Omni-Directional	Omni-Directional	Panel
Indoor/Outdoor			Indoor/Outdoor	Indoor/Outdoor	Indoor/Outdoor	Indoor/Outdoor
Frequency Range			4.9-6.0 GHz	5.15-5.35 GHz	5.725-5.875 GHz	5.725-5.825 GHz
Impedance			50 Ohms	50 Ohms	50 Ohms	50 Ohms
VSWR (50 Ohms)			< 1.7:1	1.5 Max	1.5 Max	< 1.5 Max
Gain,dBd			16dBi (60°) and 15dBi (90°)	10 dBi +/- 0.5°	10 dBi +/- 1 dBi	21.7 dBi (Typ)
Polarization			Horizontal	Vertical	Vertical	Vertical
Front to Back Ratio			32dBi	N/A	N/A	- 30 dBi
Maximum Power			10 Watts	20 Watts	20 Watts	20 Watts
Dimensions			24 in. L x 6 in. W x 3 in. D 60.96cm L x 15.24cm W x 7.62cm D	16.8 in. H 429mm H	15.5 in. H 394mm H	12.1 in. L x 12.1 in. W x 1.4 in. H 308mm L x 308mm W x 35mm D
Weight			2.55 kg	139 g	134 g	2.55 kg
Wind Loading			125 mph (201 km/h)	139 km/h	125 mph (201 km/h)	N/A
Operating Temperature			-30° to +75° C	-40° to +55° C	-40° to +55° C	-40° to +70° C
Storage Temperature			N/A	N/A	N/A	-40° to +60° C
Mounting			Mast	Mast, Wall	Mast, Wall	Mast, Wall
Connector			Rev-N (Male)	Rev-N (Male)	Rev-N (Male)	Rev-N (Male)
Cable Options			RBTES-L600-C25F RBTES-L600-C50F	RBTES-L600-C25F RBTES-L600-C50F	RBTES-L600-C25F RBTES-L600-C50F	RBTES-L600-C25F RBTES-L600-C50F
Pigtail Options			RBT4K-AG-PT20M RBT4K-AG-PT20F	RBT4K-AG-PT20M RBT4K-AG-PT20F	RBT4K-AG-PT20M RBT4K-AG-PT20F	RBT4K-AG-PT20M RBT4K-AG-PT20F
Lightning Protection Options			RBTES-AG-LPM	RBTES-AG-LPM	RBTES-AG-LPM	RBTES-AG-LPM

5.0 GHz Antennas (802.11a)

AP Model	REV	Ant. Model # / Ant. ID / AP ID	RBT4K-AG-IA	RBTES-AW-S1460	RBTES-AW-S12120	RBTES-AW-S10180
		Ant. ID	RBT4K-AG-IA	ANT5060	ANT5120	ANT5180
RBT-1602	6x	AP1602C		X	X	X
	5x, 0x	AP1602		X	X	X
TPRZ-MP-422	6x	MP422A		X	X	X
	5x	MP422		X	X	X
TPRZ-MP-620	6x	MP620A				
	5x	MP620				
RBT-4102	6x	AP4102C	X			
	5x, 0x	AP4102	X			
RBT-4102-EU	6x	AP4102C-EU	X			
	5x, 0x	AP4102-EU	X			
RBT-4102-BG	5x, 0x	AP4102	X			
Horizontal Coverage			360°	60°	120°	180°
Vertical Coverage				14°	14°	14°
PRODUCT PHOTO						
VERTICAL GAIN					No Image	No Image
HORIZONTAL GAIN						
Type/Style			Omni-Directional	Sector Panel	Sector Panel	Sector Panel
Indoor/Outdoor			Indoor Only	Indoor Only	Indoor Only	Indoor Only
Frequency Range			5.2-5.8	5100-5900 MHz	5100-5900 MHz	5100-5900 MHz
Impedance			50 Ohms	50 Ohms	50 Ohms	50 Ohms
VSWR (50 Ohms)			2 typical	≤ 1.5:1	≤ 1.5:1	≤ 1.5:1
Gain,dBd			2dBi	14.5dBi	12dBi	10.8dBi
Polarization			Vertical	Vertical, Linear	Vertical, Linear	Vertical, Linear
Front to Back Ratio			N/A	> 25dBi	> 28dBi	> 19dBi
Maximum Power			N/A	20 Watts	20 Watts	20 Watts
Dimensions			N/A	2.5 in. W x 12.2 in. L x 1 in.D 63.5mm W x 309.9mm L x 24.5cm D	12.5 in. W x 2.7 in. L x 2 in. D 317.5mm W x 68.58mm L x 50.8cm D	12.5 in. W x 2 in. L x 2 in. D 317.5mm W x 50.8mm L x 50.8cm D
Weight			85g	100g	170g (0.375 lbs)	170g (0.375 lbs)
Wind Loading			N/A	≥ 10 kg	≥ 5 kg (200 km/h)	≥ 5 kg (200 km/h)
Operating Temperature			-45° to +90° C	-45° to +75° C	-45° to +75° C	-45° to +75° C
Storage Temperature			-45° to +90° C	-30° to +75° C	-30° to +75° C	-30° to +75° C
Mounting			Ceiling	Wall, Pole	Wall, Pole	Wall, Pole
Connector			RPSMA	Rev-N (Male)	Rev-N (Male)	Rev-N (Male)
Cable Options			8 ft attached cable	None	None	None
Pigtail Options			None	RBT4K-AG-PT20F	RBT4K-AG-PT20F	RBT4K-AG-PT20F
Lightning Protection Options			None	None	None	None

5.0 GHz Antennas (802.11a)

AP Model	REV	Ant. Model # / Ant. ID / AP ID	TRPZ-ANT-7360R	TRPZ-ANT-5360	TRPZ-ANT-5120	TRPZ-ANT-5PNL
		Ant. ID	ANT-7360R	ANT5360-OUT	ANT5120-OUT	ANT5PNL-OUT
RBT-1602	6x	AP1602C				
	5x, 0x	AP1602				
TPRZ-MP-422	6x	MP422A	X			
	5x	MP422	X			
TPRZ-MP-620	6x	MP620A		X	X	X
	5x	MP620		X	X	X
RBT-4102	6x	AP4102C				
	5x, 0x	AP4102				
RBT-4102-EU	6x	AP4102C-EU				
	5x, 0x	AP4102-EU				
RBT-4102-BG	5x, 0x	AP4102				
Horizontal Coverage			360°	360°	120°	18°
Vertical Coverage			15°	12°	6°	18°
PRODUCT PHOTO						
VERTICAL GAIN						
HORIZONTAL GAIN						
Type/Style			Omni-Directional	Omni Directional	Sector	Sector Panel
Indoor/Outdoor			Indoor Only	Outdoor	Outdoor	Outdoor
Frequency Range			4900-5875 MHz	5470-5875 MHz	5150-5875 MHz	4900-5875 MHz
Impedance			50 Ohms	50 Ohms	50 Ohms	50 Ohms
VSWR (50 Ohms)			1.8	2.0:1 Max	2.0: 1 Max	2.0: 1 Max
Gain,dBd			8.0 dBi	8.0 dBi	13.5dBi	8.0 dBi
Polarization			Vertical, Linear	Vertical, Linear	Vertical, Linear	Vertical, Linear
Front to Back Ratio			N/	N/A	25dB	25dB
Maximum Power			75 Watts	5 Watts	5 Watts	5 Watts
Dimensions			3.39 in Di x 1.69 in H 86mm Di x 43mm H	322 x 21 mm (diameter)	88 x 620 x 70 mm	200 x 215 x 50 mm
Weight			.66 lb (0.3 kg)	110g	590g	825g
Wind Loading			10 N at 160 km/h (100 mph)	N/A	216 km/hr	216 km/hr
Operating Temperature			-40° to + 80° C	-40° to +80° C	-40° to +80° C	-40° to +80° C
Storage Temperature			-40° to + 80° C	-40° to +80° C	-40° to +80° C	-40° to +80° C
Mounting			Ceiling	Wall, Pole	Wall	Wall, Pole
Connector			N-Type (Female)	N-Type (Female)	N-Type (Female)	N-Type (Female)
Cable Options			3 ft cable (N-Type to RPSMA) included	TRPZ-ANT-CBL3MM	TRPZ-ANT-CBL3MM (Included)	TRPZ-ANT-CBL3MM (Included)
Pigtail Options			None	None	None	None
Lightning Protection Options			None	TRPZ-ANT-LGTNG (w/3 meter Cable)	TRPZ-ANT-LGTNG (w/3 meter Cable)	TRPZ-ANT-LGTNG (w/3 meter Cable)

Revision History

Date	Description
7/21/08	New Document
10/20/08	Removed compatibility of RBTES-BG-P18M Antenna with the RBT-4102-EU Access Point. Added new TRPZ-ANT-7360R Omni-directional antenna, compatible with TRPZ-MP-422 Access Point.

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October 2008

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